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(71)Applicant : HONDA MOTOR CO LTD

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(72)Inventor : ASANUMA SHINKICHI

NISHI YUTAKA

NISHIMORI TAKESHI

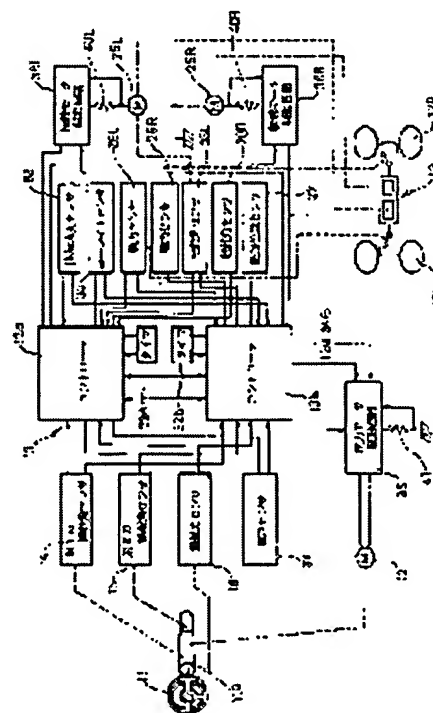
(54) VEHICLE STEERING SYSTEM

(57)Abstract:

PURPOSE: To improve the disturbance controlling performance in a vehicle against a cross wind or the like by adding a torque value dependent upon the basis of a body behavior detecting means to a steering actuator, and making a steering wheel generate a steering torque in a direction of controlling a vehicle's behavior.

CONSTITUTION: A torque value being determined on the basis of two body behavior detecting means 34, 88 is added to a steering actuator 12 connected to a steering wheel 11, thereby making the steering wheel 11 generate a steering torque in a direction of controlling a car body's behavior. In succession, a reaction motor (a steering torque generating means) 12 is connected to a control unit 13 which is provided with both controllers

13a, 13b, and connected with a yaw rate sensor 34 equivalent to the body behavior detecting means and a lateral acceleration sensor 88. Then, body's yaw rate, lateral G and steering reaction of both steering wheels 17L, 17R are detected, and steering reaction in the steering wheel 11 is controlled on the basis of those of yaw rate, lateral G, steering reaction and a



steering angle θ of the steering wheel 11.

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